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JUN 10 2003
TECH CENTER 1600/2000

1600

RAW SEQUENCE LISTING

DATE: 06/03/2003

PATENT APPLICATION: US/09/461,684C

TIME: 11:17:08

Input Set : A:\57636-8020.US00-corr2-SEQLIST.TXT

Output Set: N:\CRF4\06032003\I461684C.raw

4 <110> APPLICANT: Laus, Reiner
 5 Hakim, Itzhak
 6 Vidovic, Damir
 8 <120> TITLE OF INVENTION: Compositions and Methods for Enhancement
 9 of Major Histocompatibility Complex Class I Restricted
 10 Antigen Presentation
 13 <130> FILE REFERENCE: 57636-8020.US00
 15 <140> CURRENT APPLICATION NUMBER: US 09/461,684C
 16 <141> CURRENT FILING DATE: 1999-12-14
 18 <150> PRIOR APPLICATION NUMBER: US 60/112,324
 19 <151> PRIOR FILING DATE: 1998-12-14
 21 <160> NUMBER OF SEQ ID NOS: 10
 23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 21
 27 <212> TYPE: PRT
 28 <213> ORGANISM: Artificial Sequence
 30 <220> FEATURE:
 31 <223> OTHER INFORMATION: pK
 33 <400> SEQUENCE: 1
 34 Cys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 35 1 5 10 15
 36 Lys Lys Lys Lys Lys
 37 20
 39 <210> SEQ ID NO: 2
 40 <211> LENGTH: 25
 41 <212> TYPE: PRT
 42 <213> ORGANISM: Artificial Sequence
 44 <220> FEATURE:
 45 <223> OTHER INFORMATION: pEA
 47 <400> SEQUENCE: 2
 48 Cys Glu Ala Ala Ala Ala Ala Glu Ala Ala Ala Ala Glu Ala Ala
 49 1 5 10 15
 50 Ala Ala Ala Glu Ala Ala Ala Ala Ala
 51 20 25
 53 <210> SEQ ID NO: 3
 54 <211> LENGTH: 24
 55 <212> TYPE: PRT
 56 <213> ORGANISM: Artificial Sequence
 58 <220> FEATURE:
 59 <223> OTHER INFORMATION: HA
 61 <400> SEQUENCE: 3
 62 Cys Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Asn Gly Trp Glu

ENTERED

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63 1 5 10 15
64 Gly Met Ile Asp Gly Trp Tyr Gly
65 20
67 <210> SEQ ID NO: 4
68 <211> LENGTH: 45
69 <212> TYPE: PRT
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: tandem pEA/pK conjugate
75 <400> SEQUENCE: 4
76 Cys Glu Ala Ala Ala Ala Glu Ala Ala Ala Ala Glu Ala Ala
77 1 5 10 15
78 Ala Ala Ala Glu Ala Ala Ala Ala Lys Lys Lys Lys Lys Lys Lys
79 20 25 30
80 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
81 35 40 45
83 <210> SEQ ID NO: 5
84 <211> LENGTH: 44
85 <212> TYPE: PRT
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: tandem HA/pK conjugate
91 <400> SEQUENCE: 5
92 Cys Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Asn Gly Trp Glu
93 1 5 10 15
94 Gly Met Ile Asp Gly Trp Tyr Gly Lys Lys Lys Lys Lys Lys Lys
95 20 25 30
96 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
97 35 40
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 21
101 <212> TYPE: PRT
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: added peptidic sequence with a combination of lys and arg
residues, with an N-terminal cys residue
W--> 107 <221> NAME/KEY: VARIANT
108 <222> LOCATION: (1)...(21)
109 <223> OTHER INFORMATION: Xaa = Arg or Lys
W--> 111 <400> 6
W--> 112 Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
113 1 5 10 15
114 Xaa Xaa Xaa Xaa Xaa
115 20
117 <210> SEQ ID NO: 7
118 <211> LENGTH: 20
119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: added peptidic sequence with a combination of lys and arg
residues

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Output Set: N:\CRF4\06032003\I461684C.raw

W--> 125 <221> NAME/KEY: VARIANT

126 <222> LOCATION: (1)...(20)

127 <223> OTHER INFORMATION: Xaa = Arg or Lys

W--> 129 <400> 7

W--> 130 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

131 1 5 10 15

132 Xaa Xaa Xaa Xaa

133 20

135 <210> SEQ ID NO: 8

136 <211> LENGTH: 7

137 <212> TYPE: PRT

138 <213> ORGANISM: Artificial Sequence

140 <220> FEATURE:

141 <223> OTHER INFORMATION: peptidic sequence with repeating subunits, with an N-terminal cys residue

W--> 143 <221> NAME/KEY: VARIANT

144 <222> LOCATION: (2)...(2)

145 <223> OTHER INFORMATION: Xaa = Glu or Asp

W--> 147 <221> VARIANT

148 <222> LOCATION: (3)...(7)

149 <223> OTHER INFORMATION: Xaa = Ala, Leu, Ile, Phe, Gly, Cys, Met or Val

W--> 151 <221> VARIANT

152 <222> LOCATION: (2)...(7)

153 <223> OTHER INFORMATION: amino acids 2 to 7 comprise a subunit that is repeated three or more times

W--> 155 <400> 8

W--> 156 Cys Xaa Xaa Xaa Xaa Xaa Xaa

157 1 5

159 <210> SEQ ID NO: 9

160 <211> LENGTH: 6

161 <212> TYPE: PRT

162 <213> ORGANISM: Artificial Sequence

164 <220> FEATURE:

165 <223> OTHER INFORMATION: peptidic sequence with repeating subunits

W--> 167 <221> NAME/KEY: VARIANT

168 <222> LOCATION: (1)...(1)

169 <223> OTHER INFORMATION: Xaa = Glu or Asp

W--> 171 <221> VARIANT

172 <222> LOCATION: (2)...(6)

173 <223> OTHER INFORMATION: Xaa = Ala, Leu, Ile, Phe, Gly, Cys, Met or Val

W--> 175 <221> VARIANT

176 <222> LOCATION: (1)...(6)

177 <223> OTHER INFORMATION: amino acids 1 to 6 comprise a subunit that is repeated three or more times

W--> 179 <400> 9

W--> 180 Xaa Xaa Xaa Xaa Xaa Xaa

181 1 5

183 <210> SEQ ID NO: 10

184 <211> LENGTH: 8

185 <212> TYPE: PRT

186 <213> ORGANISM: Artificial Sequence

188 <220> FEATURE:

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189 <223> OTHER INFORMATION: OVA- derived peptide (OVA 257-264), recognized by the T cell
hybridoma B3Z. (Jameson et al., 1993, J. Exp. Med. 177: 1541)

191 <400> SEQUENCE: 10

192 Ser Ile Ile Asn Phe Glu Lys Leu

193 1 5

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/461,684C

DATE: 06/03/2003
TIME: 11:17:09

Input Set : A:\57636-8020.US00-corr2-SEQLIST.TXT
Output Set: N:\CRF4\06032003\I461684C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21

Seq#:7; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20

Seq#:8; Xaa Pos. ~~2,3,4,5,6,7~~ ---

Seq#:9; Xaa Pos. ~~1,2,3,4,5,6~~

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:6; Line(s) 105

Seq#:8; Line(s) 153

Seq#:9; Line(s) 177

Seq#:10; Line(s) 189

VERIFICATION SUMMARY

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Input Set : A:\57636-8020.US00-corr2-SEQLIST.TXT

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L:107 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:111 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6
L:125 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:129 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
M:341 Repeated in SeqNo=7
L:143 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:147 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:151 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:155 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:167 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:171 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:175 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:179 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0